



MegaPulse

1.2x50/8x20-2PF-HR 2-12ohm

PN: 00-MP1.2x50/8x20-2PF-HR 2/12ohm

❖ High accuracy combination tester 5V-2kV in compliance with IEC 61000-4-5.



A Compliance West surge tester. That means it outputs the waveform it is supposed to, time after time.

Tester can deliver an IEC 61000-4-5 compliant combination waveform at the 2Ω output from 5V to 2000V.

High Resolution charge voltage, 0.1V steps from 5V-200V and 1V steps from 200V-2000V.

2Ω output for up to 1000A in short circuit and 12Ω output for up to a 166A in short circuit.

*Actual products may vary depending on options and configuration.

➤ Features

- High resolution voltage charge, 0.1V steps from 5V to 200V and 1V step from 200V to 2000V.
- Digital output voltage knob on the front panel.
- Integrated High Voltage on hold circuit.
- Double output and double return jacks to minimize losses.
- Safety interlock discharges internal voltage; equipped with front panel E-Stop for safety.
- Long life capacitor rated for 2.5 million pulses.
- USB TestMinder, computer control, or via commands.
- Auto-trigger via USB.
- Front panel indicates internal HV and polarity.
- Polarity button selector on the front panel.
- Microcontroller technologies.
- Leads, manual and calibration certificate included.
- One year calibration cycle
- One year warranty.



➤ Specifications

TESTING CIRCUITRY

Charge Voltage:	5-2000V, $\pm 10\%$
Charge Voltage Resolution:	5-200V, 0.1V step 200V-2000V, 1V step.
Voltage Duration:	50us $\pm 20\%$.
Voltage Rise Time:	1.2us $\pm 30\%$.
Short Circuit Peak Current:	2.5 to 1000A $\pm 10\%$.
Short Circuit Current Duration:	20us $\pm 20\%$.
Short Circuit Rise Time:	8us $\pm 20\%$.
Voltage Control:	Manually, by turning a digital knob on the front panel or via USB.
Polarity Control:	Positive and Negative. Alternating control available with USB.
Voltage Display:	5 Digit LED Display.
Duty Cycle:	20s between pulses, continuous duty.

ELECTRICAL

Line Voltage:	120V AC, 50/60Hz. Optional 230V AC $\pm 10\%$, 50 Hz ± 1 Hz (CE for EU).
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SAFETY

Safety Interlock	2-pin terminal block on rear panel; shorted for operation.
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OUTPUTS - FRONT

OUTPUT:	Qty 2 - High Voltage insulated rigid 4mm socket – Red.
RETURN:	Qty 2 - High Voltage insulated rigid 4mm socket – Black.

REAR

TESTMINDER:	DB9 Female.
Inlet Module:	Inlet module with fuse and power switch combination.

➤ Environmental

Operating Temperature:	15-28 °C.
Relative Humidity Range:	0-90% non-condensing.

➤ General

Dimensions:	17" wide x 11" high x 17" deep.
Weight:	45 lbs. approx.
Product Package:	<ul style="list-style-type: none"> • Megapulse MP1.2x50/8x20-2PF-HR 2/12ohm Tester. • Megapulse MP1.2x50/8x20-2PF-HR 2/12ohm User Manual. • High Voltage Test Leads Qty 2 (Red), Qty 2 (Black). • NIST traceable calibration certificate to ANSI Z540. • Calibration Certificate and Waveforms report.



➤ Options

00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
00-CASE-9U:	Pelican Case with foam for 6U and 9U units.
A2LA-TECH-MP	ISO17025 Calibration

Rev 5.0

